## AMENDMENTS TO THE CLAIMS

Claims 1-2 (Withdrawn)

Claims 3-5 (Canceled)

6. (Currently Amended) A non human transgenic animal mouse comprising a homozygous disruption in an FPR-RS4 gene wherein the transgenic mouse exhibits, relative to a wild-type mouse, a phenotypic abnormality selected from the group consisting of increased anxiety, decreased coordination and decreased susceptibility to seizure.

Claim 7 (Canceled)

- 8. (Currently Amended) A cell derived from the transgenic mouse of claim  $\frac{76}{10}$ .
- (Currently Amended) A method of producing a transgenic mouse comprising a homozygous disruption in an FPR-RS4 gene, the method comprising:
  - (a) introducing the targeting construct of claim 1 into a cell a construct that targets FPR-RS4 into a mouse embryonic stem cell;
  - (b) introducing the embryonic stem cell into a blastocyst;
  - (c) implanting the resulting blastocyst into a pseudopregnant mouse, wherein said pseudopregnant mouse gives birth to a chimeric mouse; and
  - (d) breeding the chimeric mouse to produce the transgenic mouse, wherein the transgenic mouse exhibits, relative to a wild-type mouse, a phenotypic abnormality selected from the group consisting of increased anxiety, decreased coordination and decreased susceptibility to seizure.
- 10. (Currently Amended) A method of identifying an agent that modulates the expression or function of an FPR-RS4 gene, the method comprising:
  - (a) providing a non-human transgenic animal mouse comprising a homozygous disruption in an FPR-RS4 gene wherein the transgenic mouse exhibits, relative to a wild-type mouse, a phenotypic abnormality selected from the group consisting of increased anxiety, decreased coordination and decreased susceptibility to seizure;



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- (b) administering an agent to the non-human transgenic animalmouse; and
- (c) determining whether the expression or function of the disrupted FPR-RS4 gene in the non human transgenic animal mouse is modulated.

Claims 11-13 (Withdrawn)

Claims 14-22 (Canceled)

- 23. (Currently Amended) A method of identifying an agent that ameliorates a phenotype associated with a <a href="https://example.com/homozygous">homozygous</a> disruption in an FPR-RS4 gene, the method comprising:
  - (a) administering an agent to a transgenic mouse comprising a <u>homozygous</u> disruption in <del>an</del> FPR-RS4 <del>gene</del>; and
  - (b) determining whether the agent ameliorates at least one of the following phenotypes: increased anxiety, impaired motor coordination or balance, ataxia, or decreased susceptibility to seizure.

Claims 24-28 (Withdrawn)

- 29. (Currently Amended) A method of identifying an agent that ameliorates anxiety, the method comprising:
  - (a) administering an agent to the transgenic mouse of claim 15-6; and
  - (b) determining whether the agent has an affect on anxiety in the transgenic mouse.
- 30. (Currently Amended) A method of identifying an agent that ameliorates impaired motor coordination, impaired balance, or ataxia, the method comprising:
  - (a) administering an agent to the transgenic mouse of claim 17-6; and
  - (b) determining whether the agent has an affect on motor coordination, balance or ataxia in the transgenic mouse.
- 31. (Currently Amended) A method of evaluating treatments for anxiety, the method comprising:
  - (a) administering a therapeutic agent to the transgenic mouse of claim 15-6; and
  - (b) determining the *in vivo* effects of the agent on anxiety level in the transgenic mouse.

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- 32. (Currently Amended) A method of evaluating treatments for impaired motor coordination, impaired balance, or ataxia, the method comprising:
  - (a) administering a therapeutic agent to the transgenic mouse of claim 17-6; and
  - (b) determining the *in vivo* effects of the agent on motor coordination, balance, or ataxia in the transgenic mouse.

Claims 33-34 (Withdrawn)

- 35. (New) The transgenic mouse of claim 6, wherein the increased anxiety is characterized by decreased time spent in a central region during an open field test.
- 36. (New) The transgenic mouse of claim 6, wherein the decreased coordination is characterized by decreased time to fall during a rotarod test.
- 37. (New) The transgenic mouse of claim 6, wherein the decreased coordination is characterized by falling off the accelerating rotarod at a lower speed.
- 38. (New) The transgenic mouse of claim 6, wherein the decreased coordination comprises impaired motor coordination, impaired balance, or ataxia.
- 39. (New) The transgenic mouse of claim 6, wherein the decreased susceptibility to seizure is characterized by an increased dose of metrazol to reach seizure.